IP Access Project

- Web-based (primary); Mobile (secondary)
- Project overview:
  - Based on data obtained utilizing software built by a previous SD Project course, the City of Orlando was able to study areas where internet access was severely limited or non-existent (whether because of location or financial difficulties). Throughout the city, there are community resource centers. These centers have tablets, which can be "rented" by residents of Orlando. There is no cost, hence the quotation marks. Currently, there is no technology utilizing by these centers to: track usage, gather data about trends, sign-up in advance for device use, etc. They have a spreadsheet.
- Our goal:
  - We want to develop a web-based application as well as a mobile application I'll provide details later in the document for the specifics. The goal is develop a system that will allow residents to hold a device for use to avoid a common problem of arriving at a center to find out there are no devices, gather usage data (e.g., hours used during rental period, number of times said person has rented, and reason for borrowing a device), and allow the city to have actual data to take this program beyond simply a pilot program.
- General Build Overview (You can absolutely get creative and make this your own. These are just general ideas on functionality.)
  - Front-end:
    - User will create a login: Need to store name, address, phone number (I would say we should, ideally, automatically reject/not allow if the address is not within the allowed radius.)
      - Verify age is 18 or above
    - Select location where they'd like to pick the device up at
    - Select date for pickup (It will be held for pickup anytime that day but canceled if they do not show up by end of day.)
    - Additional: Short video about the device rental program demonstrating the steps to loan a device
  - Back-end:
    - Storing login credentials and users' information
    - Ideally, a backend dashboard that allows for metrics to be pulled and displayed
  - Other:

- The workers at the community centers are often temps, so there is a lot of turnover. A tutorial video walking them through the steps to explain the program as well as all the steps they need to take to get the person "checked out" when they come in to pick up the device.
- I'm putting this in other (even though it is more backend) the person at the community center upon checking the device out should log the device ID number, verify the information on the account matches the users' information (also possibly prompt for an extra phone number or way to contact), and input the reason for borrowing a device (e.g., work, school, their child, expanding bandwidth).